MIDDLESEX UNIVERSITY

SCHOOL OF VETERINARY MEDICINE

CATALOGUE

1942-1943

WALTHAM MASSACHUSETTS

STATEMENT

The Annual Catalogue, published well in advance of the school year to which it applies, contains a condensed record of the Faculty of the School of Veterinary Medicine; announcements relative to the calendar, requirements for admission and graduation, fees, examinations, and rules for student conduct; and information concerning the Preveterinary Course.

The provisions of this catalogue are not intended to be taken as a basis for the contractual relationship arising between the University and its students. The purpose of the Officers and Trustees is continuously to improve the methods and standards of instruction, and they reserve to themselves the right and responsibility of altering at any time the curriculum, requirements, teaching personnel, fees, and rules, as circumstances may require, or as they may deem to be the best advantage of the University.

MIDDLESEX UNIVERSITY

Catalogue

of the

School of Veterinary Medicine

and of the

Preveterinary Course

1942-1943

WALTHAM MASSACHUSETTS

Veterinary Calendar

1942

July 1	Wednesday	Summer session begins, Senior Class enrolls.
Sept. 10	Thursday	Summer session ends.
Sept. 14 to 19	Monday to Saturday	First installment of tuition due.
Sept. 21 to 26	Monday to Saturday	Examinations for the removal of conditions.
Sept. 24	Thursday	Fall Session opens. Registration.
Oct. 12	Monday	Columbus Day. A holiday.
Nov. 11	Wednesday	Armistice Day. A holiday.
Nov. 25 to 28	Wednesday to Saturday	Thanksgiving Recess.
Dec. 21 to 26	Monday to Saturday	Second installment of tuition due.
Dec. 21	Monday	Christmas vacation begins.

1943

Jan. 4	Monday	Classes resumed.
Feb. 8	Monday	Second Semester begins.
Feb. 16	Tuesday	Graduation of Class of 1943.
Feb. 22	Monday	Washington's Birthday. A holiday.
Mar. 22 to 27	Monday to Saturday	Third installment of tuition due.
April 19	Monday	Patriots' Day. A holiday.
May 29	Saturday	Second Semester ends.

Changes in the calendar, resulting in the elimination of vacation periods, may be announced, in the accelerated wartime program.

The Trustees of Middlesex University

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Assistant to the Dean
Harris W. Hantman, B.S., D.V.M.

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John Hall Smith, M.D.

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Librarian
Dorothy McLaughlin

Director of Dormitories
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The Faculty

EDGAR A. CROSSMAN, *Dean* . *Veterinary Medicine*
M.D.V., Harvard University

LEO WEISZ . . . . *Diseases of Large Animals, Surgery*
D.V.M., V.S., University of Vienna

WILLIAM WHITE . . . *Meat Inspection, Diseases of Small Animals*
M.D.V., Harvard University

ALBERTO ASCOLI . . . *Bacteriology, Immunology*
M.D., University of Vienna; M.D., University of Pavia

W. M. SIMPSON . . . *Clinical Veterinary Medicine*
V.S., Montreal Veterinary College

HARRIS W. HANTMAN . . *Parasitology, Obstetrics*
B.S., D.V.M., Kansas State College

MARION T. COX . . . *Anatomy*
D.V.M., Ohio State College

TIT WONG . . . . *Pathology*
B.S., University of Ling Nan, China; M.S., Cornell University, D.V.M., Kansas State College

HANS ELIAS . . . . *Histology*
Ph.D., University of Siessen

DAVID LYMAN DAVIDSON . . *Biochemistry*
B.S., M.S., Ph.D., Brown University

HAROLD M. KAPLAN . . *Physiology*
A.B., Dartmouth College; A.M., Ph.D., Harvard University

MEYER PERLSTEIN . . . *Bacteriology*
B.S., Columbia University; M.D., Middlesex University

I. JACQUES YETWIN . . . *Pharmacology*
B.S., Rutgers University; M.S., University of Chicago; M.D., Middlesex University

SOLOMON H. GORDON . . *Chemistry*
B.S., Massachusetts State College; Ed.M., Boston University

LAWRENCE BRODERICK . . *Animal Husbandry*
B.S., Massachusetts State College

C. Ruggles Smith . . . *Medical Jurisprudence*
A.B., LL.B., Harvard University; Litt.B., A.M., Columbia University

Rudolph Sibley . . . *Clinical Veterinary Medicine*
V.S., Ontario Veterinary College

Cornelius F. Sullivan . . *Clinical Veterinary Medicine*
D.V.M., University of Pennsylvania

Terrence J. Burke . . *Clinical Veterinary Medicine*
V.S., Ontario Veterinary College; B.V.Sc., University of Toronto

Julian Karasoff . . . *Anatomy*
D.V.M., Middlesex University

Elihu Bond . . . . *Pathology*
D.V.M., Middlesex University

Rosa Kubin . . . . *Chemistry, Laboratory Diagnosis*
Ph.D., University of Vienna

Samuel Kamberg . . . *Roentgenology*
M.D., Tufts College

Theodore Fischer-Galati . *Ophthalmology*
M.D., University of Vienna; M.D., University of Rome

Joseph I. Cheskis . . . *Modern Languages*
A.B., University of Paris; A.M., Ph.D., Harvard University

William Northrop Morse . *English*
A.B., Amherst College; A.M., Harvard University

Stella Sutherland . . *English, History*
A.B., Queen's University; A.M., University of Chicago; Ph.D., University of Illinois

Bernhard W. Sakmann . . *Physics, Mathematics*
Ph.D., Massachusetts Institute of Technology

Albert Alan Rogers . . *History, Economics, Sociology*
B.A., University of Richmond; B.S. Ed., M.A., Ph.D., University of Virginia

Albin Goldschmied . . *Philosophy, Psychology*
Ph.D., University of Prague

Florence S. Alexander . . *Modern Languages*
A.B., Brooklyn College; A.M., University of Michigan

Organization and Objectives

The School of Veterinary Medicine was chartered by the legislature of the Commonwealth of Massachusetts as a department of Middlesex University, with authority to confer the degree of Doctor of Veterinary Medicine. The School aims to provide a thorough, systematic education in all the basic and applied sciences of veterinary medicine, and to train veterinarians so that they may adequately deal with the investigation, prevention, and cure of animal diseases.

The Trustees of Middlesex University undertook the establishment of a veterinary department for two reasons,—because they realized that there was great need for such a school in New England, since the opportunity for prospective students from this section to secure admission to veterinary schools elsewhere was extremely limited; and because the University was ideally located and equipped to develop a veterinary school on the spacious campus that already accommodated the College of Arts and Sciences and the School of Medicine.

Location, Buildings, and Facilities

The Veterinary School and Animal Hospital, a building designed and erected exclusively for the use of the School of Veterinary Medicine on the 100-acre Waltham campus of Middlesex University, was dedicated by Dean Crossman in October, 1940, before an impressive gathering of veterinarians, state and municipal officials, educators, and students.

The new Veterinary Building is modern in architectural design and is constructed of brick and reinforced concrete. Three stories high, it is rectangular in shape, covering a ground area of over 10,000 square feet, and a wide white-walled interior court assures excellent lighting for all the laboratories.

The front or south wing of the Veterinary Building contains administration offices and students' locker rooms on the ground floor, the junior and senior classrooms on the first floor, and the freshman and sophomore classrooms on the second floor. The classrooms are large, well lighted, and air-conditioned; and are each equipped with 80 fixed seats with movable arms for note-taking, and with blackboards, charts, and an instructor's platform,

the leveled rail of which contains a seating chart showing the place assigned each student.

The west wing houses two of the large teaching laboratories, each with an area of 1900 square feet. The Anatomy Laboratory is equipped with mounted skeletons of domestic animals, a comprehensive collection of animal bones, dissecting tables of varying sizes, an overhead crane for the handling of large carcasses, and underfloor tanks for the storage of material. Adjacent to the anatomy laboratory is a smaller room for prosection and the preparation of materials for dissection, and an office for the teaching staff of the department.

The third floor of the west wing is occupied by the Bacteriology-Pathology Laboratory, equipped with autoclaves, incubators, refrigerators, centrifuges, microtomes, a large collection of strains of micro-organisms, pathological slides, gross specimens, and all the necessary apparatus for instruction and research. Long benches for students working with microscopes run along the sides of the laboratory, which has connections for electricity, gas, and water. The separate research laboratories and offices of the departments are adjoining this laboratory.

The departments of Chemistry, Physiology, and Histology occupy the east wing of the building. The Chemistry Laboratory on the third floor contains 128 student lockers, completely equipped with glassware, and other apparatus. The benches are supplied with standard reagents, gas and water, and a sink extends between each row of benches. This laboratory is used one semester for organic and the second for biological chemistry, and next to it is the chemistry storeroom and the departmental office and research laboratory.

The Histology Laboratory uses the same type of equipment as has already been described in the Pathology Laboratory for the preparation of slides, and contains wide benches along the window, where the students use their microscopes and make their drawings. During the second semester this teaching laboratory is available to the Physiology Department and is equipped with kymographs, manometers, basal matabolism machinery, and the usual apparatus for this study.

The ground floor of the north wing houses the Animal Hospital, and contains the operating room and stalls for the treatment of the larger domestic animals. There is a separate building for the

small-animal hospital and clinic. The operating room is equipped with an electrically-driven, hydrostatic-lift, operating table, that can accommodate large animals and convey them from a vertical to a horizontal position, suitably restraining them pending the administration of an anaesthetic. There is no communication between the hospital quarters and those parts of the building devoted to preclinical teaching.

The second and third floors of the north wing contain research and private laboratories, offices of department-heads, and the veterinary library. Slides, media, cultures, and other materials for use in the teaching laboratories are prepared in these smaller laboratories by assistants and technicians attached to the departmental staffs.

Not far from the main Veterinary Building is the Small-Animal Hospital and Clinic, a long one-story stucco and brick structure, built on an arc, and covered with a high-pitched overhanging roof of green asbestos shingles. The office and reception room of the clinic occupy a circular room with a conical roof, at the center of the inner arc of the building, facing one of the campus roadways across a formal flowerbed. Dwarf evergreens spaced between the sixteen windows add to the pleasing aspect of the approach to the clinic. The rear or outer arc of the building is at the top of a long slope towards the street, and opens into exercise yards for convalescent animals. The interior contains operating and treatment rooms and a large area for the special cages in which the smaller animals are confined during their stay at the hospital.

The buildings of the department of animal husbandry and the University's agricultural developments are situated in convenient proximity to the Veterinary Building. The dairy barns, three red-brick two-story structures, flanked by tall silos and a water tower, and enclosing a corral with a serpentine brick wall on its fourth side, house the University's herd of forty registered cattle. Each of the four breeds, Jersey, Guernsey, Ayrshire and Holstein, is represented by a bull and about ten cows. A handsome English fieldstone stable, two-stories in height, shelters the farm and riding horses, and other more unusual members of the University's animal collection. Other related structures include the piggery, the sheep and goat sheds, the poultry-yards, the aviary, many kennels, and a large maintenance building that has accommodations for many of the laboratory animals.

The Department of Conservation, Division of Fisheries and

Game, of Massachusetts has issued to Middlesex University a license to maintain wild animals and game birds, and there is now being established on the campus a collection of non-domestic animals.

The facilities of the University Library, with its collection of scientific and cultural texts, and its files of current scientific periodicals, are available to the veterinary students. The museum collections of the University include an extensive exhibit of material in the field of anatomy and vertebrate zoology, which are used for the purpose of instruction in the School of Veterinary Medicine. A separate veterinary library has been established, and an inclusive exhibit of anatomical and pathological specimens, which are housed in the new Veterinary Building.

Student Accommodations

The first student housing unit on the Middlesex University campus, a group of ten colonial bungalows, was completed in 1940. Each student cottage contains four rooms and a bath with shower, and accommodates four students. There are two single bedrooms, one double bedroom, and a study or living room for the joint use of the four occupants.

The bungalows are Cape Cod colonial in design and embody the most modern methods of construction. They are heated by automatic gas furnaces of the latest type. The dormitory group is conveniently located on the campus within a few minutes walk of the veterinary buildings. The ten bungalows are grouped about a rectangular lawn, traversed by a paved road, which leads into the campus from Route 20, the Post Road from Boston to New York.

Veterinary students may secure rooms in the dormitories for $150 per student for the school year of 36 weeks. The rental is payable in three installments of $50 each on the date set for the payment of the tuition. Since the number of dormitory rooms available is limited, applications from individual students, from those who wish to be roommates, or from groups of four who want to share a cottage should be filed as early as possible. In order for a room to be reserved the application must be accompanied by

an advanced payment of $25, which is refundable only at the discretion of the University.

The University provides the necessary furniture, heat, hot water, electricity and maid service for the dormitories. Student occupants have to provide themselves with sheets, pillow cases, blankets, linen, towels, and any furnishings in the way of decorations and rugs. In order that the appearance of the cottages may be uniform the University will provide curtains at cost for each student room.

For the convenience of students who are unable to secure accommodations in the University dormitories a list of approved rooming houses within walking distance of the campus is maintained. Room and board may be secured with private families at an average weekly cost of $11, and there are a number of conveniently located restaurants.

There are over 100 parking spaces on the campus for students who travel by automobile. Those who come to the University from other states must obey the Massachusetts law that prescribes that non-resident motorists who keep their cars in the state for more than 30 days must conform with the local requirements that all automobiles be covered by liability insurance.

Scholarship, Student-Aid, and Awards

Middlesex University has no scholarship endowment, but individual gifts often make available a limited number of scholarships covering in full or in part tuition in any department of the University. Applicants for these scholarships must have very high scholastic standing and must be in actual need of financial assistance. Continuance of the scholarship from one year to another depends upon the recipient's moral, social, and scholastic qualifications. All scholarship applicants must have a personal interview with the President and with the Dean of the respective School.

There are also available a limited number of service scholarships covering the cost of tuition. Recipients of these scholarships must have proper qualifications to serve as laboratory assistants or otherwise.

Middlesex University has participated for several years in the federal student work program of the National Youth Administra-

tion. The purpose of this program is to provide employment of a socially useful nature for students who would otherwise be financially unable to continue their education. Students appointed to these positions are assigned to work under the supervision of various faculty members and are paid from $10.00 to $20.00 a month by the National Youth Administration. Middlesex University had a quota of 29 federal student work positions during the school year 1941-1942.

The following prizes are awarded annually to students who have distinguished themselves in certain phases of the veterinary course: the Dean's Prize of ten dollars to the student attaining the highest grades in all subjects; the Leo Weiss Prize of ten dollars and a certificate, to the senior student attaining the highest grades in surgery and obstetrics; the Harris Warren Hantman Prize of ten dollars and a certificate, to the senior student considered by the faculty to be most proficient in clinical work; the Dr. T. Wong Prize of ten dollars and certificate to the senior student attaining the highest proficiency in Pathology; and the Barbara Joan Beck Prize of five dollars and a certificate to the sophomore student whose average is highest in pharmacy, pharmacology, and materia medica.

Requirements for Admission

The School of Veterinary Medicine is coeducational. The requirements for admission may be satisfied by graduation from a recognized college, or by the successful completion of a standard high school course and college work amounting to at least 40 semester hours and including 6 semester hours each of English, Inorganic Chemistry and General Zoology. It is preferred that the candidate also present college credits in Physics, Mathematics, Botany, and Animal Husbandry.

The entrance requirements will be advanced to a minimum of two years of preveterinary college work after the termination of the war.

Candidates who are high school graduates, but who have not yet completed the required college work, may enroll in the Junior College for their preveterinary course. A place is reserved in the School of Veterinary Medicine for all those who successfully com-

plete the preveterinary course at Middlesex University. Attention is directed to that part of the catalogue describing the two-year preveterinary course and the seven-year combined course leading to the degrees of Bachelor of Science and Doctor of Veterinary Medicine. A more detailed description of these courses is contained in the announcement of the Junior College.

Admission blanks may be obtained from the Registrar, Box 310, Waltham, and should be filed accompanied by a verification fee of $10.00 and a personal unmounted photograph, not less than 2½ by 3 inches in size. Applicants may arrange for a personal interview at the Waltham Campus, or at the Back Bay Building, 415 Newbury Street, Boston. In the case of candidates who come from outside of Massachusetts, a personal interview may be deferred until the opening week of the school year.

Applicants for admission to advanced standing must have the necessary qualifications for admission to the first-year class and must have satisfactorily completed one or more years of instruction in an approved School of Veterinary Medicine.

Special students may be admitted for selected courses if they provide evidence of satisfactory previous training; such students will not, however, be accepted as candidates for a degree.

Fees and Expenses

The cost of operating a veterinary school is very high. It is the policy of Middlesex University to charge as low a tuition fee as is consistent with the maintenance of proper educational standards.

The requirements of veterinary education are such that only a limited amount of outside work can be done by a student without seriously endangering his health or scholastic standing. For this reason prospective students are urged to postpone their matriculation until they are reasonably sure of their ability to meet the expenses of at least the first year of the veterinary course. If a student is obliged to drop out of school before the completion of the four-year course in order to earn sufficient funds for the continuance of his education, he may apply for a leave of absence, and

every effort will be made to make a place for him, should he make application for readmission within a reasonable time.

Fees are payable only by postal money order, certified check, express money order, and telegraph order. Remittances must be made by mail, and addressed to Middlesex University, Box 310, Waltham, Massachusetts.

The verification fee of ten dollars is payable by all new students and should accompany the filing of the application blank. This fee is not refundable under any circumstances, since each application involves secretarial work and receives the careful attention of the administrative staff. The verification fee is payable only once, and may be credited to the student's account, should he withdraw his application and then re-apply in a subsequent year.

The matriculation fee of twenty-five dollars is payable by each candidate for admission or re-admission to the School, when he is notified that his application has been acted upon favorably by the Committee on Admissions. No place will be reserved in a class until the accepted applicant has paid this matriculation fee. This fee is to reserve a place for the matriculant, and does not constitute part of the tuition.

The tuition fee of $300 is charged for each year of instruction in the School of Veterinary Medicine. This fee is payable in three equal installments on the dates indicated on the University Calendar. The tuition fee includes all laboratory charges except breakage, damage, and loss of apparatus. The tuition fee in the Preveterinary Course is $200 a year.

Any student whose installment of indebtedness to the School remains unpaid on the date fixed for final payment is deprived of the privileges of the School until he is reinstated. Reinstatement is obtained only by consent of the Board of Trustees, after payment of all indebtedness and a reinstatement fee of ten dollars. This charge of ten dollars is also payable, in the form of a late-registration fee, by all students who may be permitted to enroll in the School after the date set for payment of the first installment of the tuition. Tuition fees are not refundable.

The graduation fee of twenty-five dollars is payable by all successful candidates for the degree of Doctor of Veterinary Medicine, upon notification by the Bursar.

An examination fee of five dollars is charged for the first re-examination in any subject failed. Any subsequent or special ex-

amination, except in the case of illness, is subject to a charge of ten dollars.

Students required to withdraw from school for reasons of national defence will be granted a refund for any unearned tuition and a leave of absence until such time as they are able to return to school. No student who enlists or is drafted for military service will forfeit his standing.

A student may obtain one transcript of his scholastic record without charge. A clerical fee of one dollar is required for all additional transcripts.

First and second year students are required to possess satisfactory microscopes, fitted with low, high power, and oil-immersion objectives. New instruments cost about $150. Microscope lockers are available, but the University assumes no responsibility for the safety of instruments stored in any of its buildings.

Discipline and Dismissal

The University reserves the right to dismiss at any time a student whose deportment or scholarship is unsatisfactory, and to refund a proportional part of the current tuition fee he has paid. Admission to the University is in all cases for one year only, and readmission may be denied without explanation.

Attendance

Attendance during all class and laboratory exercises is required. Students who are absent, for any considerable time, on account of illness, or for other unavoidable reason, must present medical certificates or other satisfactory evidence in justification of their absence. A routine medical examination of each member of the entering class will be made at the beginning of the academic year.

Examinations and Promotion

Admission to the School is for one year only, and the Trustees reserve the right to dismiss a student at any time, or to refuse readmission or promotion to any student.

The veterinary course extends over a period of four years, and

the students are divided into four classes. Promotion from one class to another is based upon the satisfactory completion of the work of each year. A student will not be admitted to the final examinations in any course unless his class record, attendance, and laboratory work in that subject are satisfactory, and all of these elements will be considered in the determination of his final grade. Marks are given in all courses on a percentage basis, and a grade of seventy-five per cent is required to pass the course.

A student will not be allowed the privilege of final examinations, or be given his final grades in any course, until he has satisfied all of his financial obligations to the School.

The Committees on Promotion, consisting of Administrative Officers of the School and members of the Faculty, review the work of the student at the end of the first, second, and third years of the course. It is within the province of the Committees on Promotion to decide whether a student shall be promoted to the next class, shall be permitted to take further instruction in the Summer Session and examinations for the removal of conditions in September, shall be required to repeat the year's work, or shall be denied further registration in the School by reason of unsatisfactory scholarship.

In order to be promoted to the Third-Year Class, a student must have successfully passed all of the examinations in the work of the First Year, and no student shall be eligible for promotion to the Fourth-Year Class who has failed to pass satisfactorily in all the subjects of the previous years.

Students who fail to receive passing grades in the final examinations in June may, at the discretion of the Committees on Promotion, be given an opportunity to enroll in the Summer Session for further instruction in the subjects failed, and to take examinations for the removal of their conditions during the scheduled re-examination period in September before the opening of the school year. A fee of five dollars is charged for every such re-examination. The Committees on Promotion may permit re-examination in certain instances, and in courses that do not include laboratory work, without requiring the conditioned student to enroll for further instruction in preparation for such examinations. Students who are eligible for re-examinations must make written application at least two weeks before the examinations are scheduled, and remit the required fee of five dollars for each examination.

The mere attainment of passing grades does not insure promotion. The continuance in good standing of any student is also contingent upon his faithful adherence to the rules and regulations of the School and of affiliated institutions, as well as his observance in extra-curricular activities of a moral standard appropriate to one aspiring to the veterinary profession.

Any student who voluntarily withdraws from the School for proper reasons forfeits his standing, but may apply for readmission in a subsequent year. If not too long a time has elapsed, and if changes in the rules of promotion or in the curriculum do not render such an admission impractical, his application should receive favorable consideration.

Requirements for Graduation

Each candidate for the degree of Doctor of Veterinary Medicine must have fulfilled the following requirements:

1. He must be at least twenty-one years of age and of good moral character.
2. He must have satisfactorily completed the four-year course in separate years.
3. If he has been admitted to advanced standing from some other school he must have completed the last year at Middlesex University.
4. He must have received a passing grade in each subject of the curriculum and he must have presented a satisfactory record of clinical work.
5. He must have furnished a personal photograph and his signature for identification.
6. He must have satisfied all indebtedness to the University, including the graduation fee of $25.00.

Veterinary Medical Society

All students enrolled in the Veterinary School are eligible for membership in the Middlesex University Veterinary Medical Society. This organization has for its purpose the promotion of veterinary medicine, and its members meet periodically to listen to addresses by authorities in various phases of veterinary science, and to discuss topics of interest to the profession.

In 1942 the first graduating class formed an Alumni Veterinary Association.

Prescribed Course of Study

The course of instruction extends over four school years. Each academic year is divided into two semesters of not less than sixteen weeks, exclusive of holidays and vacations. The basic veterinary sciences are studied in the first two years, by lectures, demonstrations, and laboratory exercises. The third and fourth years are devoted to practical clinical courses. Each course meets, in regard to its total hours, the standards set by the outstanding veterinary schools in the country.

Beginning with the session of 1942-1943, *the Veterinary School will adopt an accelerated program of instruction for the duration of the war. By the elimination of the usual vacations, the standard four-year course will be compressed into three calendar years.*

First Year

First Semester		*Second Semester*	
Gross Anatomy	7(3-12)*	Gross Anatomy	8(4-12)
Histology	5(3- 6)	Histology and Embryology	3(2- 3)
Types and Breeds	5(3- 0)	Dairy Judging	1(0- 3)
Organic Chemistry	4(2- 6)	Physiological Chemistry	4(3- 3)
Medical Botany	1(0- 3)	Zootechnics	1(0- 3)

Second Year

Comparative Physiology	6(4- 6)	Materia Medica	3(3- 0)
Pathogenic Bacteriology	6(4- 6)	Pharmacology	1(0- 3)
Feeds and Feeding	3(3- 0)	Pathology I	4(2- 6)
Parasitology I	4(2- 6)	Poultry Husbandry	2(1- 3)
Comparative Anatomy	2(0- 6)	Milk and Milk Products	3(2- 3)
		Pharmacy	1(0- 3)
		Immunology	1(0- 3)
		Parasitology II	2(1- 3)

Third Year

Surgery I	5(5- 0)	Surgery II	5(5- 0)
Pathology II	4(2- 6)	Pathology III	2(0- 6)
Clinic I	2(0- 6)	Clinic II	2(0- 6)
Surgical Anatomy	2(0- 6)	Obstetrics I	3(3- 0)
Therapeutics	2(2- 0)	Diseases of Sm. Animals	4(4- 0)
Clinical Diagnosis	2(1- 3)	Diseases of Lg. Animals	5(5- 0)

*Semester hours (lecture hours—laboratory hours).

Fourth Year

Clinic III	7(0-21)	Clinic IV	7(0-21)
Diseases of Sm. Animals	2(2- 0)	Meat Inspection	3(3- 0)
Diseases of Lg. Animals	5(5- 0)	Infectious Dis. of Lg. Animals	5(5- 0)
Obstetrics and Breeding II	2(2- 0)	Poultry Diseases	2(2- 0)
Pathology IV	3(3- 0)	Medical Economics and Law	2(2- 0)
Radiology	1(1- 0)	Surgical Exercises	2(0- 6)
Ophthalmology	1(1- 0)	Clinical Pathology	7(0-21)

Description of Courses

All courses are offered under the following departments of the School of Veterinary Medicine.

Anatomy	Pathology
Chemistry	Animal Husbandry
Bacteriology	Medicine
Physiology	Surgery
Pharmacology	Obstetrics

Chemistry

Organic Chemistry. Lectures and laboratory. Organic compounds of biological importance. General reactions of aliphatic and aromatic series.

Physiological Chemistry. Lectures and laboratory. Chemistry of digestion, circulation, and metabolism of the animal body; and analysis of foodstuffs.

Zoology and Medical Botany

Lectures and laboratory work covering a review of Animal Biology, and a consideration of poisonous plants, grasses, clovers, cereals, and economic plants eaten by animals. Classification, distribution, identification, control, elimination, structure, behavior, and development.

Animal Husbandry

Livestock Production. Types, breeds, judging, management, and marketing of livestock; cattle, horses, swine, and sheep.

Animal Feeding. Principles of feeding, nutrition, nutritional diseases, digestion, calculation of rations of farm animals; soil fertility and classification of feeds.

Dairy Industry. Lectures and laboratory work in the model dairy; composition and properties of milk, selection of dairy cows, dairy inspection.

Genetics. Heredity and the breeding of livestock.

Poultry Husbandry. Practical instruction to demonstrate the care of poultry, and the study of scientific methods in egg production.

Zootechnics. The origin, history, development, and identification of the registered breeds of dogs. Breeding, care, and feeding of dogs; and kennel management.

Veterinary Anatomy

Anatomy. Lectures, laboratory, and dissection. The structure of domestic animals; the horse, the dog, and other animals are dissected simultaneously.

Applied Anatomy. Dissection and study of structures involved in the usual surgical operations.

Histology. The minute structure and composition of the tissues and organs of domestic animals. Lectures and microphotographic demonstration; microscopic study of slides in the laboratory.

Histological Technique. The preparation of slides for microscopic examination; fixing, hardening, staining, embedding, sectioning, and mounting of specimens; frozen section technique.

Embryology. Lectures and laboratory. The prenatal development of the various domestic animals; fetal membranes, malformations, growth.

Bacteriology

Pathogenic Bacteriology. Lectures and laboratory. Morphology, classification, and characteristics of pathogenic bacteria and protozoa that are pathogenic for domestic animals and man. Preparation of culture media, principles of sterilization, and the microscopic identification of bacteria.

Immunology and Serology. The theories of immunity and the methods of immunization; biological preparations used in veterinary medicine; the preparation, purification, and standardization of vaccines and antitoxins.

Dairy Bacteriology. The bacterial flora of milk and milk products; the effects of the action of bacteria on cheese and butter; milk in relation to diseases of the cow.

Physiology and Pharmacology

Physiology. Lectures and laboratory. Functions of animal organs and systems; biophysical principles; functional variations.

Pharmacology. Lectures and laboratory. The physiological action of drugs; preparation of drugs.

Materia Medica. Lectures and laboratory. Official and other important drugs; preparation, origin, properties, action and doses; toxicology and antidotes.

Pharmacy. The writing and compounding of prescriptions, and the preparation of pharmaceutical products.

Therapeutics. The use of drugs in the treatment of animal diseases encountered in general practice.

Pathology and Parasitology

Pathology I. Lectures, quizzes and laboratory. Changes in structure and function in diseased conditions; causes and effects of disease.

Histo-Pathology (General)

Pathology II. Specific pathological processes occurring in the various organs of domesticated animals. (Systematic Pathology.)

Pathology III. Continuation of Pathology II, and a consideration of tumors and neoplasms of domestic animals.

Pathology IV. Postmortem diagnosis and technique. The student is required to prepare reports of the cases presented in the autopsy room. Pathology of infectious diseases.

Poultry Diseases. The etiology, course, and termination of fowl afflictions; immunity of fowl, congenital and inherited diseases. A review of the anatomy of the fowl, and a consideration of the diseases and parasitic infestations of poultry; sanitation, hygiene, and minor surgery.

Meat Hygiene. A study of macroscopic lesions and pathological changes in diseased food-producing animals. Federal, state, and municipal regulations governing sanitary laws, inspection of ani-

mals before and after slaughter, and the various methods of preservation and adulteration. Rules governing healthful meat production. Students make routine inspection tours to abbatoirs.

Clinical Pathology. The examination of pathological material. The processes of hematological, bacteriological, serological, and parasitological diagnosis. This course is conducted in conjunction with clinics.

Pathological Technique. Laboratory instruction in the preparation of gross and microscopic specimens for diagnosis and for preservation.

Parasitology I. The important external and internal parasities of domestic animals. The treatment and control of diseased conditions caused by parasites.

Parasitology II. The important external parasites of domestic animals, their treatment and control.

Medicine

Physical Diagnosis. Lectures and demonstrations; methods of diagnosis; symptoms of disease in the various organs.

Clinical Laboratory Practice. Blood and urine chemistry; parasitology; hematology; routine examinations.

Large-Animal Medicine. Principles and practice; diagnosis and treatment of diseases of the horse, the cow, the sheep, the pig, and the goat. Clinical service in the Animal Hospital and dispensaries.

Small-Animal Medicine. Treatment and prevention of diseases in small animals, including dogs, cats, and birds. Practical training under clinical instructors in the Small-Animal Hospital and in affiliated clinics.

Surgery and Obstetrics

Surgery I. Principles of surgery; asepsis, anaesthesia, wounds, infections, bone disease; the care and use of instruments.

Surgery II. Major and minor operations in veterinary medicine and dentistry; control of hemorrhage; stitches, materials, knots, and bandaging; fractures and dislocations; convalescent care. Clinical instruction in the operating room of the Animal Hospital.

Surgical Exercises. Surgical operations performed on the cadaver.

Restraint. Methods of restraint to be applied before the administration of medication or surgical procedures under field and hospital conditions.

Obstetrics. The physiology of reproduction, artificial insemination, sterility, diseases of the genital organs. Care of pregnant animals, normal and abnormal deliveries, care of the new-born.

Lameness and Soundness. Podology, horseshoeing, demonstrations at the forge.

Medical Economics

Jurisprudence. Ethics, business methods, government regulations, meat inspection, quarantine rules, game laws, purchase and sale of animals, examination of the soundness of animals, and the legal principles of contracts, torts, property rights, and of the practice of Veterinary Medicine. Licensure, and the legal obligations of the practicing veterinarian.

Fur-Bearing Animals

Treatment of Fur-Bearing Animals. Care in health and disease; nutrition, breeding, pelts. An elective course.

Fox Farming. Lectures and field trips. Care and feeding; problems in heredity; grading of hides; pathology and therapeutics. An elective course.

PREVETERINARY COURSES

Middlesex University Junior College is a member of the New England Junior College Council and of the American Association of Junior Colleges.

The Junior College offers a two-year preveterinary course designed to fulfill the requirements for admission to the School of Veterinary Medicine, and the University reserves a place in the first-year class of the School of Veterinary Medicine for all applicants who successfully complete the preveterinary course in Middlesex College.

The two-year preveterinary course covers seventy semester hours, and includes the following subjects:—

First Year

Subject	*Semester Hours*
Chemistry 101-102 (General Inorganic)	8
English 101-102 (Composition, Rhetoric, and Public Speaking)	6
Modern Language 101-102 (French, German or Spanish)	6
Mathematics, History, or Economics 101-102	4
Biology 101-102 (Botany and Zoölogy)	8

Second Year

Subject	*Semester Hours*
Biology 201-202 (Comparative Vertebrate Anatomy)	8
Physics 101-102 *or* Chemistry 201-202	8
Modern Language 201-202 (Advanced French, German, or Spanish	6
English 103-104 *or* 201-202	6
Animal Husbandry 101-102 (Introduction to Animal Husbandry)	4

During the present emergency it may be possible for candidates to complete the preveterinary requirement within a period of twelve months, and to enter the School of Veterinary Medicine with credit for not less than forty-five semester hours of college work.

The Seven-Year Combined College and Veterinary Course

The College of Arts and Sciences, in conjunction with the School of Veterinary Medicine, offers a seven-year course leading to the degrees of Bachelor of Science and Doctor of Veterinary Medicine. The first three years are spent in the College and devoted to preveterinary and cultural study, and the degree of Bachelor of Science is conferred upon the subsequent completion of the first year in the School of Veterinary Medicine.

The three-year preveterinary course includes the following subjects:

First Year

Subject	*Semester Hours*
English	6
Chemistry	8
Biology	8
Modern Language	6
Mathematics	4

Second Year

Subject	*Semester Hours*
English	6
Physics	8
Modern Language	6
Biology	8
Animal Husbandry	4

Third Year

Subject	*Semester Hours*
English	6
Animal Husbandry	6
Chemistry	8
Psychology	6
Social Science	6

STUDENTS 1941-1942

Candidates for the Degree of Doctor of Veterinary Medicine

*Fourth-Year Class**

Joseph Appleby . . . . Yonkers, N. Y.
Middlesex University

Bernard Aronson . . . . Huntington Station, N. Y.
Washington State College.

Edward Arthur Blake . . Gardner, Mass.
Middlesex University

Elihu Bond . . . . . Mt. Vernon, N. Y.
Columbia University

John Gabriel Donnellan . . Boston, Mass.
Middlesex University

Ephraim Goldrosen . . . . Worcester, Mass.
Clark University
College of the City of New York

Harold Seymour Kalter . . Long Beach, N. Y.
New York University

Julian Michael Karasoff . . New Hampton, N. Y.
Brooklyn College

Max Terry Mills . . . . Gloversville, N. Y.
Cornell University

Donald Omar Mowers . . Lebanon, N. H.
Middlesex University

Robert Molyneaux Nutter . Berwyn, Pa.
University of Pennsylvania

*At Commencement Exercises, held at Waltham on the first day of June, 1942, the degree of Doctor of Veterinary Medicine was conferred on the members of this class, the first to be graduated from the School of Veterinary Medicine of Middlesex University.

Leonard Albert Schulhof . New York, N. Y.
Fordham University

Nathan Siegel . . . . Bayonne, N. J.
New York University

Saul Soloman Spitzberg . . New York, N. Y.
B.S., New York University

Burton David Whitestone . Huntington, N. Y.
Pennsylvania State College

Frank Wallace Zak . . . Turners Falls, Mass.
Michigan State College

Third-Year Class

Isaac Abrich . . . . . Providence, R. I.
Providence College
Iowa State College

Joseph Beck . . . . . Flushing, N. Y.
Ph.G., Brooklyn College of Pharmacy
St. John's University

Charles Henry Belford . . Laconia, N. H.
Middlesex University

Samuel Chay Bloom . . . Boston, Mass.
Santa Monica Junior College

Francis John Carniglia . . Windsor Locks, Conn.
Middlesex University

Sherman Lowell Coates . . Fitchburg, Mass.
Middlesex University

Arthur Burnside Cragin . . Wakefield, Mass.
Middlesex University

Richard Eugene Cugnasca . Boston, Mass.
Tufts College

Harold Samuel Dulman . . Yonkers, N. Y.
St. John's University
Middlesex University

Richard Channing Dye Middlesex University	Gloversville, N. Y.
George Shelor Fisher Alabama Polytechnic Institute	Waltham, Mass.
Albert Galen Gettysburg College	Atlantic City, N. J.
Seymour Glasofer Iowa State College	Newark, N. J.
William Louis Govone Miami University	Oxford, Ohio
Lawrence Ira Halpert New York University	Brooklyn, N. Y.
Theodore William Harris B.S., St. John's University	Brooklyn, N. Y.
James Hayward Leach Villanova College	Wayne, Pa.
Marvin Weisman Leslie Kansas State College	Passaic, N. J.
William Levy Wagner College	Bayonne, N. J.
Robert Gerard Lynch Cornell University	Ballston Spa, N. Y.
Arthur James McCarthy Middlesex University	Framingham, Mass.
John Herbert McCaslin St. Bonaventure's College	Osceola, Pa.
*James Patrick McEnelly Middlesex University	Marlboro, Mass.

*This student, while on temporary leave of absence from the University, was reported lost in the sinking of the "Lady Hawkins" en route to Bermuda. He was the University's first casualty in the present war.

Jane Munlex O'Brien . . Taunton, Mass.
Cornell University

Michael John Polino . . Brooklyn, N. Y.
Long Island University

Harold Polinsky . . . New York, N. Y.
Middlesex University

John Frederick Pomidor . . Hawthorne, N. J.
Paterson State Teachers' College

Nathan Samberg . . . . New York, N. Y.
College of the City of New York

Joseph Louis Schulhof . . New York, N. Y.
Middlesex University

Edward Gerald Slade . . Framingham, Mass.
Middlesex University

Earl Vincent Smith . . . Carlisle, Pa.
Temple University
University of Pennsylvania

Sidney Stern . . . . . New York, N. Y.
College of the City of New York

Edward Marc Umans . . . Arverne, N. Y.
Cornell University

LeRoy Sanders Weinberg . . Philadelphia, Pa.
University of Pennsylvania

Raymond Weiner . . . Philadelphia, Pa.
Villanova College

Robert Foster Wignall . . Billerica, Mass.
Middlesex University

Jacob Wittenberg . . . Brewster, N. Y.
Alfred University

Arnold Jerome Zarett . . Edgemere, N. Y.
Wayne University

Second-Year Class

HOWARD CLINTON ADAMS . . Worcester, Mass.
Clark University

CYRIL JAMES ALLEN . . . Newport, R. I.
Middlesex University

BENJAMIN BARKER . . . Boston, Mass.
Middlesex University

GABRIEL BELINSKY . . . Pawtucket, R. I.
Middlesex University

MYRON BERNSTEIN . . . Far Rockaway, N. Y.
Pennsylvania State College

LAWRENCE JAY BONN . . . New York, N. Y.
St. John's University

THOMAS BORIA . . . . Wilkinsonville, Mass.
Clark University

WALDO WALKER BROOKS, JR. . Berlin, Mass.
Middlesex University

RAYMOND VINCENT BURNS . . Bayonne, N. J.
New York University
Ohio State University

MATTHEW CARR . . . . Torrington, Conn.
The Municipal University of Omaha

MARTIN JOHN CLOUGHERTY . . Winthrop, Mass.
Middlesex University

HERBERT JAY COBBS . . . Waltham, Mass.
Pratt Institute
Middlesex University

HERBERT COHEN . . . . Mt. Vernon, N. Y.
New York University

SAUL HOWARD COHEN . . . Brooklyn, N. Y.
State College of Washington

WALLACE ROBERT EAGLE . . Cameron, Mo.
Colorado State College

Charles Philip Engelberg . Brooklyn, N. Y.
Cornell University

Alvin Cary Epstein . . . Brooklyn, N. Y.
St. John's University

Frederick Calvin Fillmore . Somerville, Mass.
Middlesex University

Robert Mose Fingerman . . New York, N. Y.
St. John's University

Martin Fish . . . . Mt. Vernon, N. Y.
New York University
Middlesex University

Harry Gorfein . . . . New York, N. Y.
College of the City of New York

Sanford Myron Greene . . Cleveland, Ohio
Ohio State University

Melvin Nathaniel Grove . . Brooklyn, N. Y.
Clemson Agricultural College

William Sample Hicks . . Burlington, Vt.
Vermont University

Edward James Hills . . . Gowanda, N. Y.
Ohio State University
Michigan State College

Irving Lewis Kaminetsky . . Brooklyn, N. Y.
St. John's University

Norman Ketover . . . Brooklyn, N. Y.
Brooklyn College

Leonard Kohn . . . . Cleveland, Ohio
Ohio State University

Arthur Edward Lager . . New York, N. Y.
St. John's University

Milton LeRoy . . . . Hartford, Conn.
Middlesex University

Louis Levine . . . . Brooklyn, N. Y.
Cornell University

MORRIS MURRAY LEVINE . . A.B., Brooklyn College	Lake Ronkonkoma, N. Y.
JAMES LIEBERMAN . . . Cornell University	Richmond Hill, N. Y.
HAROLD FRENCH LINDER . . State College of Washington	Caldwell, N. J.
ROBERT LIPSHUTZ . . . Ohio State University	Richmond Hill, N. Y.
JOHN ROBERT LOWE . . . Middlesex University	Salem, Mass.
LAWRENCE ASHLEY MACLOED . Middlesex University	Reading, Mass.
FRANK HEWITT MADDEN . . Syracuse University	Syracuse, N. Y.
JOHN MASON . . . . Cornell University	Baltimore, Md.
RICHARD FRANCIS MERKERT . . Middlesex University	Jamaica, N. Y.
VICTOR BORIS MERKIN . . . New York University	New York, N. Y.
RUTH ELLIOTT MILLER . . . Middlesex University	Paterson, N. J.
PIERRE PHILLIP MORAND . . Middlesex University	Holbrook, Mass.
JAMES EDWARD MOTTAU . . Middlesex University	Brockton, Mass.
HYMAN NEWMAN . . . University of Pennsylvania Pennsylvania State College	Philadelphia, Pa.
DONALD OLEN NOLL . . . Muhlenberg College University of the Philippines	Palmerton, Pa.

Seymour Jay Ornstein . . New York, N. Y.
Kansas State College

Walker Seward Poston . . Oakland, Cal.
St. Mary's College
University of Philippines

Paul Hartzell Richards . . Bangor, Pa.
Iowa State College

Morris Aaron Shiffman . . New York, N. Y.
College of the City of New York
Middlesex University

Gordon Hadley Southworth . Lynn, Mass.
Middlesex University
State College of Washington

Stefan Michael Stefanic . . Danbury, Conn.
Michigan State College

Milton Tatelbaim . . . Boston, Mass.
Middlesex University

Bernard Wilbur Waxman . . New York, N. Y.
New York University
Michigan State College

Irwin Warren Wayne . . New York, N. Y.
B.S., Kansas State College

Samuel Winokur . . . Boston, Mass.
Iowa State College

George Stanley Wood . . Waltham, Mass.
Middlesex University

First Year Class

Ptolemy Arthur Adams . . Waltham, Mass.
B.S., University of New Hampshire

Elliott Leonard Adler . . Brooklyn, New York
St. John's University

Alvin Antelyes . . . . Brooklyn, New York
Brooklyn College

Richard Sanford Archer . . Boston, Mass.
Middlesex University

Richard Bolton Bartlett . Holliston, Mass.
Middlesex University

Mac Davis Canada Begelfer . New York, N. Y.
St. John's University

Sanford Raymond Blum . . Jersey City, N. J.
St. John's University

Norman Breslauer . . . New York, N. Y.
Middlesex University

Harold James Cummings . . Averill Park, N. Y.
Syracuse University

Richard Nathaniel Davis . . Jackson Heights, N. Y.
St. John's College

James Craig DeWitt . . . North Abington, Mass.
Middlesex University

Richard Vincent Donnellan . Brighton, Mass.
Middlesex University

Samuel Dreizen . . . Brooklyn, N. Y.
B.S., Brooklyn College

Edwin Elias Epstein . . . Jamaica, N. Y.
Long Island University
Brooklyn College

Joseph Colombo Fabbricotti . Norfolk, Mass.
Middlesex University

George Peter Faddoul . . Marlboro, Mass.
Middlesex University

Stanley Henry Fenichel . . Brooklyn, N. Y.
St. John's University

Albert Budd Fenton . . . Houston, Tex.
Lafayette College
North Texas Agricultural College

Sidney Howard Finestone Middlesex University	New York, N. Y.
Harvey Roy Fischman A.B., Brooklyn College	Brooklyn, N. Y.
Abraham Fishlin Middlesex University	Brighton, Mass.
Francis Joseph Fittipaldi Catawba College	Haddon Heights, N. J.
Gilbert Charles Freeman Middlesex University	Beverly, Mass.
Paul Jack Friedman Colorado State College	Passaic, N. J.
Arthur Albert Gilbert University of Washington State College of Washington	New Rochelle, N. Y.
Harold Goodman College of City of New York Purdue University	New York, N. Y.
Abraham Grossman City College of New York New York University St. John's University	New York, N. Y.
Ralph Grusmark Middlesex University	New York, N. Y.
Harold Bernard Gursha Middlesex University	Brockton, Mass.
William Goodwin Hale Columbia University	Hartford, Conn.
Albert John Healey Middlesex University	Lexington, Mass.
Robert D. Henderson St. John's University	Accord, N. Y.

HAROLD JUDSON HILL . . . Hudson, N. H.
University of New Hampshire
Middlesex University

RICHARD LAWRENCE HILL . . Littleton, N. H.
Vermont Academy
Middlesex University

MARTIN LEON HOFFMAN . . Brooklyn, N. Y.
City College of New York
St. John's College

LEVON KALANTAR . . . . Fayetteville, Ark.
New York University
University of Arkansas

MILTON KAPLAN . . . . Brooklyn, N. Y.
B.S., Long Island University

DAVID YORK KAUFMAN . . Hartford, Conn.
Hartford Federal College
Middlesex University

SELY KOVITCH . . . . Providence, R. I.
Middlesex University

LEON AARON LECHT . . . Providence, R. I.
Middlesex University

SEYMOUR LEOPOLD . . . Brooklyn, N. Y.
Cornell University

MILTON LEROY . . . . Hartford, Conn.
Middlesex University

LEONARD ISADORE LEWIN . . Pine Bluff, Ark.
University of Arkansas

ABRAHAM LINDER . . . Brooklyn, N. Y.
Long Island University

JOHN ROBERT LOWE . . . Salem, Mass.
Middlesex University

RODNEY NELSON MAGARGAL . . Bethel, Conn.
Middlesex University

Clarence Francis Manziano . Jersey City, N. J.
B.S., St. Peter's College
New Jersey State Teachers College

Maxwell Martus . . . Malden, Mass.
Middlesex University

John Francis McGauley . . Leicester, Mass.
Middlesex University

John Gerald Menter . . . Los Banos, Calif.
Colorado University
California Polytechnic School

Earle Edward Murphy . . New London, Conn.
Middlesex University

Herbert Nagin . . . . . Brooklyn, N. Y.
The City College of New York
Brooklyn College

Seymour David Novich . . Yonkers, N. Y.
Middlesex University

Leonard Hazard Ouimette . Swanton, Vt.
Middlesex University

Francis Thomas Pallotti . . Hartford, Conn.
University of Connecticut

Manfred Parker . . . Albany, N. Y.
Siena College

Edgar Irwin Parvey . . . Providence, R. I.
Massanutten Military Academy
Michigan State College

Nathan Pollack . . . Brooklyn, N. Y.
Cornell University

Irving Pudalov . . . . Brooklyn, N. Y.
Brooklyn College

Jason Allen Raymond . . Brookline, Mass.
University of Alabama
Middlesex University

Theodore Howard Reich . . Brooklyn, N. Y.
Brooklyn College

Jack Bernard Robinson . . Brookline, Mass.
Middlesex University

Morris Aaron Rosenthal . . Monticello, N. Y.
Hartwick College

Samuel Irving Rothstein . . Amenia, N. Y.
A.B., New York University College of Washington Square

Raymond Russo . . . . Brooklyn, N. Y.
Brooklyn College
Cornell University

Melvin Sacks . . . . New York, N. Y.
Washington State College

Herman Maurice Salk . . New York, N. Y.
St. John's University

Edward Sauris . . . . Lawrence, Mass.
Middlesex University

Herbert Schein . . . . East Lansing, Mich.
Cornell University
Michigan State College

Leon Schwartz . . . . New York, N. Y.
State College of Washington
New York University

Irwin Walter Schwartzman . New Haven, Conn.
Ohio State University

Jack Seligman . . . . Brooklyn, N. Y.
College of the City of New York
Brooklyn College
Cornell University

Lionel Aaron Shaffro . . New York, N. Y.
Cornell University

Jacques Murray Shapiro . . New York, N. Y.
St. John's College
Brooklyn College

John Alexis Somers . . . Jersey City, N. J.
St. Peter's College

Raymond Francis Stratton . Long Island, N. Y.
Oglethorpe University
Lehigh University
Middlesex University

Harvey George Tableman . . Livingston Manor, N. Y.
Cornell University

Louis Tochen . . . . Brooklyn, N. Y.
St. John's College

Robert David Walker . . Sea Cliff, N. Y.
Colgate University

Benjamin Weiner . . . Malden, Mass.
Middlesex University

Edward W. Winett . . . Gauthersburg, Md.
University of Maryland

Donald Bernard Winters . . New Haven, Conn.
Middlesex University

Edward Angelo Zullo . . Natick, Mass.
Middlesex University

PREVETERINARY CLASS

Candidates for Admission to the School of Veterinary Medicine

Milton Altshuler Boys High School	Brooklyn, N. Y.
Paul Bartlett Baldwin Brookline High School	Brookline, Mass.
Stanley Burton Bienstock Seward Park High School	New York, N. Y.
Sidney Jay Brittner Evander Childs High School	New York, N. Y.
Edward E. Buffington Fairhaven High School	Fairhaven, Mass.
Archie Brown Carr Rising Sun High School	Conowingo, Md.
John Joseph Doherty Mount St. Charles Academy	Stoneham, Mass.
Raymond Louis Dumas Mary E. Wells High School	Southbridge, Mass.
Robert Thomas Farrand Holyoke High School	Holyoke, Mass.
Donald Flax Bayonne High School University of Alabama	Bayonne, N. J.
Lawrence T. Glasser DeWitt Clinton High School City College of New York	New York, N. Y.
Robert Charles Gollance English High School	Brighton, Mass.
Richard Franklin Hansen Barnstable High School	Osterville, Mass.

Walter James Holt, Jr. . . Somerville, Mass.
Somerville High School

Jack Elliot Kampner . . Waterbury, Conn.
Crosby High School
Providence College

Raymond H. Johnson . . Agawam, Mass.
Lansing Central High School
American International College
Massachusetts State College

Martin Litwack . . . Malden, Mass.
Malden High School

John Alden Loring, Jr. . . Reading, Mass.
New Hampton Preparatory School

Robert Wallace MacDonald . Los Angeles, Cal.
Fairfax High School
California State Polytechnic Institute

Francis William McGee . . Marlboro, Mass.
Marlboro High School

Robert Ralston Monahan . Framingham, Mass.
Framingham High School

Harold Okonowsky . . . Passaic, N. J.
Passaic High School

Irene Ruth Solomon . . Boston, Mass.
Jeremiah E. Burke High School

Howard Allan Smith . . Chelsea, Mass.
Chelsea High School

Elmer Thomas Stauffer . . Naugatuck, Conn.
Naugatuck High School

David Tanzer . . . . Long Island, New York
Far Rockaway High School

Robert Grayson Wilcox . . Milford, Mass.
Hopedale High School

Distribution by Colleges

Alabama Polytechnic Institute	1	Middlesex University	64
Alabama, University of	2	Mulhenberg College	1
Alfred University	1	Municipal University of Omaha	1
American International College	1	New Hampshire, University of	2
Arkansas, University of	2	New Jersey State Teachers' College	1
Brooklyn College	14	New York University	13
California Polytechnic Institute	2	North Texas Agricultural College	1
California, University of	1	Oglethorpe University	1
Catawba College	1	Ohio State University	6
Clark University	3	Paterson State Teachers' College	1
Clemson Agricultural College	1	Pennsylvania State College	3
Colgate University	1	Pennsylvania, University of	4
College of the City of New York	11	Philippines, University of	2
Colorado State College	2	Pratt Institute	1
Colorado University	1	Providence College	2
Columbia University	1	Purdue University	1
Connecticut, University of	1	St. Bonaventure's College	1
Cornell University	15	St. John's University	19
Fordham University	1	St. Mary's College	1
Gettysburg College	1	St. Peter's College	2
Hartford Federal College	1	Santa Monica Junior College	1
Hartwick College	2	Siena College	1
Iowa State College	4	Syracuse University	2
Kansas State College	3	Temple University	1
Lafayette College	1	Tufts College	1
Lehigh University	1	Vermont University	2
Long Island University	4	Villanova College	2
Maryland, University of	1	Wagner College	1
Massachusetts State College	1	Washington, State College of	7
Miami University	1	Wayne Universtiy	1
Michigan State College	5		

Geographical Distribution of Students

Arkansas	2	New Jersey	16
California	3	New York	92
Connecticut	14	Ohio	3
Maryland	3	Pennsylvania	9
Massachusetts	63	Rhode Island	6
Michigan	1	Texas	1
Missouri	1	Vermont	2
New Hampshire	4		

Summary

Candidates for the Degree of Doctor of Veterinary Medicine

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Freshman Class	83
Sophomore Class	57
Junior Class	37
Senior Class	16
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GIFTS AND ENDOWMENT

Middlesex University is authorized by the Massachusetts Legislature to receive and hold donations, legacies, and bequests of real and personal property to an extent not to exceed five million dollars, and to use such property or the income therefrom for its general educational purposes.

The School of Veterinary Medicine and the Animal Hospital are now in immediate need of substantial endowment funds. The Trustees will be glad to receive specific gifts of books, equipment, or material for the use of any department of the University; and would be very grateful for any donation to the endowment of the University.

Bequests may be made in the following form:

I give to the Trustees of Middlesex University, an educational institution incorporated under the laws of the Commonwealth of Massachusetts, the sum of.....dollars, to be applied to the general purposes of the University.

Contributions and bequests to the University are deductible for income and estate tax purposes in the manner and to the extent provided by law.

MIDDLESEX UNIVERSITY

JUNIOR COLLEGE
Preprofessional Courses, Arts and Sciences

COLLEGE OF ARTS AND SCIENCES
A.B. and B.S. Degrees

SCHOOL OF MEDICINE
M.D. Degree

SCHOOL OF VETERINARY MEDICINE
D.V.M. Degree

BOSTON and WALTHAM — MASSACHUSETTS